Beam Power Tube

NOVAR TYPE For Color-TV Horizontal-Deflection Amplifier Applications

	GENERAL DATA	
	Electrical:	
— ,	Heater Characteristics and Ratings: Voltage (AC or DC)	-
	respect to cathode 200 max. volt. Heater positive with	S
	respect to cathode	S
	Grid No.1 to plate 0.44 p Grid No.1 to cathode, grid No.3,	f
	grid No.2, and heater 21.0 p Plate to cathode, grid No.3,	f
	grid No. 2, and heater 11.0 p	f
	Characteristics, Class A; Amplifier:	
	Triode Pentode	
	Connection Connection	
	Plate Voltage	t s s s a
	Mechanical:	
	Operating Position. Any Type of Cathode Coated Unipotential Maximum Overall Length 4.600 Seated Length 4.090" ± 0.130 0.130 Diameter 1.438" to 1.562 0.130 Bulb 5mall (JEDEC No.C1-1 0.130 Cap 5mall (JEDEC No.C1-1 0.130 Socket Cinch Mfg 0.00 0.149 19 00 0.33 Industrial Electronic Hardware Corp No.SO-0968-SL1 or equivalent) " " 2) , ,

Base Large Button Novar 9-Pin (JEDEC No.E9-76) Basing Designation for BOTTOM VIEW								
Pin 1-Grid No.2 Pin 2-Grid No.1 Pin 3-Cathode Pin 4-Heater Pin 5-Heater	9 6 3 7 2 8	Pin 6 - Grid No.1 Pin 7 - Grid No.2 Pin 8 - Grid No.3 Pin 9 - Do Not Use Cap - Plate						

HORIZONTAL-DEFLECTION AMPLIFIER

maximum natings, Design-Maximum facues.				
For operation in a 525-line, 30-1	frame	system ⁶	d	
DC PLATE-SUPPLY VOLTAGE	. 9	90 max	. volts	_
PEAK POSITIVE-PULSE PLATE VOLTAGE	. 70	000 max	. volts	
PEAK NEGATIVE-PULSE PLATE VOLTAGE	. 11	.00 max	volts	
DC GRID-No.3 VOLTAGE				
(See Operating Considerations)		75 max	. volts	
DC GRID-No.2 (SCREEN-GRID) VOLTAGE	. 1	190 max	. volts	
PEAK NEGATIVE-PULSE GRID-No.1				
(CONTROL-GRID) VOLTAGE	. 2	250 max	. volts	
CATHODE CURRENT:				
Peak	. 11	LOO max	. ma	
Average				
GRID-No.2 INPUT	. 3			
PLATE DISSIPATION ^f	•	24 max	. watts	
BULB TEMPERATURE			•	
(At hottest point on bulb surface)	. 2	240 max	· °C	
Maximum Circuit Values:				
Grid-No.1-Circuit Resistance:				
For grid-resistor bias operation f	. 0.	47 max	. megohm	
For plate-pulsed operation				_
(horizontal-deflection circuits only	1.	10 max	 megohms 	

^a The dc component must not exceed 100 volts.

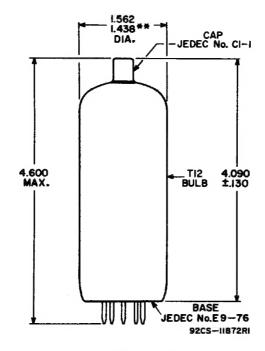
b Without external shield.

This value can be measured by a method involving a recurrent wave form such that the plate dissipation, grid-No. 2 input, and cathode current will be kept within ratings in order to prevent damage to the tube.

d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

It is essential that the plate dissipation be limited in the event of loss of grid signal. For this purpose, some protective means such as a cathode resistor of suitable value should be employed.



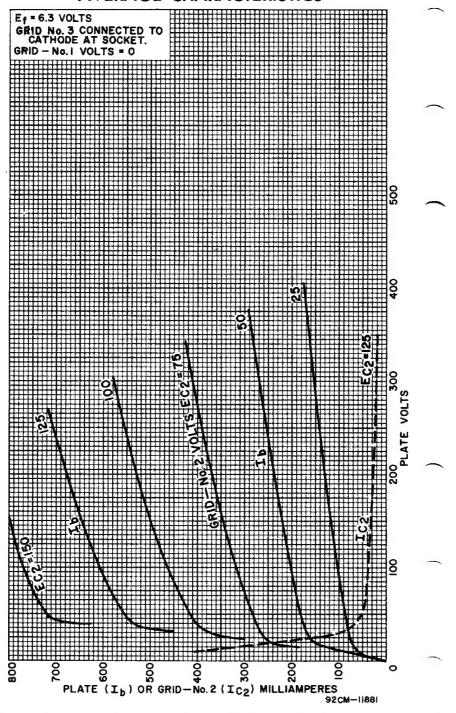
ALL DIMENSIONS IN INCHES

** APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.

OPERATING CONSIDERATIONS

In horizontal-deflection amplifier service a positive voltage may be applied to grid No.3 to minimize "snivets" interference which may occur in both uhf and vhf television receivers. A typical value for this voltage is 30 volts.

AVERAGE CHARACTERISTICS



AVERAGE CHARACTERISTICS

